

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
01-FH-01	FISC	9	Estimation of ecosystem-level effects and evaluation of potential control methods for the Asian Swamp Eel (Genus: <i>Monopterus</i>)	Leo Nico, Bill Loftus, and John Curnutt	Sharon Gross	2001 - 2003
01-FH-04	LSC	9	Behavior, Passage, and Guidance of Downstream Migrant Fishes in Hydroelectric Forebay Environments	Alex Haro	Chris Lowie	2001 - 2003
01-FH-05	WFRC	9	Chemical Contamination of Hatchery Fish Feed	James Seelye	Ann Gannam	2001 - 2003
01-IA-01	CRU	9	Conservation Status of Medicinal Plants in International Trade	Pat Mazik, James McGraw	Julie Lyke	2001 - 2001
01-IA-02	LSC	9	Molecular Systematics for Identification of Cypripedioid Orchids in International Trade	Tim King	Patricia Ford	2001 - 2002
01-IA-03	External	9	Conservation Status of Native Snakes in International Trade	J. Whitfield Gibbons, Tony Mills, Robert Fisher, Carlton Rochester	Kurt Johnson	2001 - 2001
01-IA-05	WERC	9	Conservation Status of Native U.S. Turtles in Domestic and International Trade	Justin D. Congdon, J. Whitfield Gibbons, Jeff Lovich	Kurt Johnson	2001 - 2001
01-LE-01	FRESC	9	Development of Molecular Markers in Spotted/Barred Owl Hybrids for Use in Forensic Law Enforcement	Susan Haig	Pepper Trail	2001 - 2001
01-R1-01	PWRC	1	Demographic Modeling of North Pacific Albatross Populations	William Kendall, James Nichols	**	2001 - 2002
01-R1-02	WERC	1	Patterns and causes of mortality in the southern sea otter (<i>Enhydra lutris nereis</i>)	James Estes	Greg Sanders	2001 - 2004
01-R1-03	WFRC	1	Quantification of links between habitat restoration and native trout population response	Patrick J. Connolly, Robert E. Gresswell	Rowan Gould	2001 - 2001
01-R1-05	CRU	1	Impacts of Caspian Tern Predation on Populations of Migratory Salmonids in Washington Estuaries and Bays	Daniel D. Roby	Tara Zimmerman	2001 - 2001
01-R1-06	WFRC	1	Genetic, Physiological, and Behavioral Comparisons among Wild and Hatchery Populations of Spring Chinook Salmon in the Methow River, Washington	Robin M. Schrock, Alec G. Maule	Donald Campton	2001 - 2003
01-R1-08	FORT	1	Development of a River System Impacts Assessment Model, Subtitle: Validate models of Klamath River flow, water quality, aquatic habitat and salmonid young-of-year production.	Sam Williamson	**	2001 - 2003
01-R1-09	WERC	1	Tidal Wetlands Restoration of San Francisco Bay Salt Ponds	A.K. Miles, J.Y. Takekawa, M. Saiki	Joelle Buffa	2001 - 2001
01-R2-03	CRU	2	Effects of water developments on Desert Bighorn Sheep at Cabeza Prieta NWR	Paul R. Krausman, Scott Bonar	John Morgart	2001 - 2001
01-R2-04	NWRC	2	Effects of Fire on Selected Habitats: Assessing the Biological Effects of Fire	Jim Grace and Clint Jeske, William Eddleman	Kathy Granillo	2001 - 2003
01-R2-06	LSC	2	Genetic Broodstock Management Plan for Gila Trout	Harold L. Kincaid, Reginald Reisenbichler	Jim Brooks	2001 - 2001
01-R2-08	FORT	2	Investigations into the early life histories of the razorback sucker (<i>Xyrauchen texanus</i>) and bonytail (<i>Gila elegans</i>) in Cibola High Levee Pond, Arizona.	Gordon Mueller, Chuck Minckley, Jeanette Carpenter, Paul March	**	2001 - 2005
01-R2-09	CERC	2	Evaluation of Rio Grande Water-Quality Conditions to Endangered Species	Steven J. Hamilton and Kevin Buhl	Joel Lusk, Cyndie Abeyta	2001 - 2004
01-R2-10	CERC	2	Evaluation of Behavioral Modification in Enhancing Post-Release Survival of Captively-Reared Attwater's Prairie-Chicken	Miguel Mora	Mike Morrow	2001 - 2004
01-R3-01	GLSC	3	Determination of bathythermal habitat selection by commercial, sport, and priority native species in the Treaty ceded waters of the Upper Great Lakes	Roger Bergstedt, Ray Argyle	Charles Bronte	2001 - 2003
01-R3-02	CERC	3	Reproductive potential of triploid grass and black carp	Don Tillitt	Jim Milligan	2001 - 2003
01-R3-03	CRU	3	Viability of Captive Rearing Techniques for the Great Lakes Piping Plover	David Andersen, Francesca Cuthbert	Jack Dingleline	2001 - 2001
01-R3-04	NPWRC	3	Potential Flood Storage Capacity of Restored Wetlands in the Red River of the North Basin	Ned H. Euliss, Jr.	Laurie Fairchild	2001 - 2003
01-R3-05	UMESC	3	Science Support for Regional and Refuge Bird Conservation Planning	Melinda G. Knutson, John R. Sauer	Steve Lewis	2001 - 2003
01-R3-06	WRD	3	Sedimentation of Missouri River Wetlands at Squaw Creek and DeSoto National Wildlife Refuges	Dale Blevins	Ronald Bell	2001 - 2004
01-R3-07	CRU	3	Chronology, distribution, and abundance of migratory shorebirds in response to habitat conditions on Swan Lake National Wildlife Refuge and surrounding public and private lands.	Ronald D. Drobney, Leigh H. Fredrickson	Sean Kelly	2001 - 2003
01-R3-08	CRU	3	Evaluation of the magnitude and causes of mortality during the fall in relation to the impact of harvest on woodcock	David E. Andersen, Francesca Cuthbert	Steve Wilds	2001 - 2003

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
01-R3-10	CRU	3	Recovery information needed to prevent extinction of the federally endangered winged mapleleaf mussel	Bruce Vondracek and Mark Hove	Pamella Thiel	2001 - 2003
01-R4-01	PWRC	4	Distribution and status of Tallapoosa River system fauna	Mary Freeman, Elise Irwin, James Peterson, Byron Freeman	**	2001 - 2002
01-R4-02	CRU	4	Development of techniques to propagate freshwater mussels utilizing fish hatcheries	James B. Layzer	Richard Biggins	2001 - 2003
01-R4-04	PWRC	4	Impacts of "special" resident Canada goose seasons on resident and vulnerable migrant Canada geese	William Kendall and James Nichols	**	2001 - 2002
01-R4-06	External	4	Upper Coosa River Fauna Cryptic Biodiversity	Richard L. Mayden and Charles Lydeard	Bob Butler	2001 - 2002
01-R4-07	PWRC	4	Relations between stream biotic integrity and proportion of annual surface water runoff consumed for human use	Mary Freeman	**	2001 - 2001
01-R4-08	NWRC	4	Provide Science-based Support for Implementation of the Lower Mississippi River Aquatic Resource Management Plan and the Lower Mississippi Valley Geomatics Network	Lawrence R. Handley and Robert Delaney	**	2001 - 2004
01-R4-09	PWRC	4	Food production and avian use of former catfish production ponds managed as moist-soil impoundments in the Mississippi Alluvial Valley	Ken Reinecke	**	2001 - 2003
01-R4-10	CRU	4	A Behavioral Comparison of Wild and Hatchery-Reared Shortnose Sturgeon in the Savannah River, South Carolina	Jeffery Isely	Tom Sinclair	2001-2002
01-R5-01	LSC	5	Microsatellite DNA Analysis of Endangered Atlantic Salmon	Tim King	David Perkins	2001 - 2002
01-R5-02	External	5	Effects of Marsh Management on Coastal Secretive Marsh Birds	Peter Marra	Randy Dettmers	2001 - 2002
01-R5-03	PWRC	5	Relative Importance of Horseshoe Crab Eggs to Migrant Shorebirds in Delaware Bay	G. Michael Haramis, Janet R. Keough, Jeffrey Hatfield	**	2001 - 2002
01-R5-05	LSC	5	Endocrine Disruption in Atlantic Salmon (<i>Salmo salar</i>) Exposed to Pesticides	Terry Haines	**	2001 - 2001
01-R5-06	LSC	5	Non-lethal Detection of Infectious Salmon Anemia Virus to Safeguard Against Introduction of Disease Among Atlantic Salmon in New England	Rocco C. Cipriano	John Coll	2001 - 2002
01-R5-07	External	5	Population size estimates of sea lamprey transformers in Lake Champlain tributaries	J. Ellen Marsden	Craig Martin	2001 - 2001
01-R5-08	PWRC	5	Ecosystem response of salt marshes to Open Marsh Water Management (OMWM) and ditch plugging: Monitoring at FWS Region 5 coastal Refuges	M. Perry, R. M. Erwin, W. Kendall, G. Guntenspergen, and D. Cahoon	Janith Taylor	2001 - 2005
01-R5-09	CRU	5	Chlorine toxicity to early life stages of freshwater mussels	Richard Neves	Cindy Kane	2001 - 2002
01-R5-10	PWRC	5	Grassland breeding bird use of managed grasslands within Region 5 of USFWS.	Michael C. Runge, William L. Kendall and John R. Sauer	Laura Mitchell	2001 - 2003
01-R6-05	CERC	6	Development of Methods to Determine the Reproductive Status of Pallid Sturgeon in the Missouri River	Mark Wildhaber, Aaron DeLonay, Diana Papoulias, and Donald Tillitt	Steven Krentz	2001 - 2004
01-R6-07	NPWRC	6	Grassland easements/wind generators	Douglas Johnson	Ron Reynolds	2001 - 2006
01-R6-08	FORT	6	Inventory Terrestrial Invasive Weed Species and Distribution on Region 6 Refuges Through a Geographic Information System (GIS) Mapping Initiative	Thomas J. Stohlgren; Thomas W. Owens	Wayne King	2001 - 2001
01-R6-09	CERC	6	Evaluation, interpretation, and visualization of complex computational models for operating the Missouri River mainstem dams	Robert B. Jacobson	**	2001 - 2002
01-R6-10	FORT	6	Mountain Plover/Agricultural Lands in Eastern Colorado	Fritz L. Knopf	**	2001 - 2005
01-R7-01	ASC	7	Update Information on Southern Beaufort Sea Polar Bear Populations	Steven C. Amstrup	Scott Schliebe	2001 - 2007
01-R7-03	ASC	7	Characterization of Beaufort Sea Flyway: Long-tailed ducks and Pacific Common Eiders	Margaret R. Petersen	Russ Oates	2001 - 2004
01-R7-04	ASC	7	Population dynamics of Black Scoters breeding on the Yukon-Kuskokwim Delta	Paul Flint	Tim Bowman	2001 - 2004
01-R7-09	CRU	7	Landscape Analysis of Moose Distribution Relative to Fire History in Interior Alaska	A. David McGuire	Lisa Saperstein	2001 - 2001
01-RS-04	FORT	9	Invasive Species Survey and Report	Thomas J. Stohlgren; Carl Korschgen	**	2001 - 2002
01-RS-05	FORT	9	Assistance with Habitat Training Module Development	Rick Schroeder, Dave Hamilton, Jay Hestbeck	Jan Taylor	2001 - 2001
01-SP-01	PWRC	9	Band Reporting Rate	J.D. Nichols, J.E. Hines, W.L. Kendall	**	2001 - 2001
01-SP-03	FORT	9	Shorebird Monitoring and Assessment (Study C-Shorebird population and habitat sampling problems in ephemeral wetlands)	Jon Bart, Susan Skagen	**	2001 - 2003

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
01-SP-04	CRU	9	Marsh bird and woodcock monitoring	Courtney Conway, Jonathan Bart, David E. Andersen, and David Krementz	**	2001 - 2003
01-SP-05	CRU	9	Large Scale Habitat Monitoring for Migratory Birds: Digital Video Mosaics in Multi-level Images	Franklin Percival	Mark Koneff	2001 - 2002
02-IA-01	CRU	9	Conservation of Paddlefish (<i>Polyodon spathula</i>) in Trade	Phil Bettoli	Marie Maltese	2002 - 2003
02-IA-02	FRESC	9	Conservation status of eleven Epiphytic Forest Moss Species in Trade	Patricia Muir, Gary Larson	**	2002 - 2002
02-R1-01	CRU	1	Sage grouse winter survival	Bob Anthony	**	2002 - 2002
02-R1-03	WFRC	1	Evaluating the role of wetlands to endangered salmonids at Toppenish and Tualatin River National Wildlife Refuges	Jim Petersen	Fred Pavaglio	2002 - 2002
02-R1-04	WFRC	1	The role of natural and human-made barriers in the abundance and life history characteristics of coastal cutthroat trout	Pat Connolly	Donald Campton	2002 - 2002
02-R1-05	PIERC	1	Management Plan for restoration of lowland dryland forest and endangered species at Pu'u-o-kali Wiliwili Forest Reserve	Lloyd Loope	David Hopper	2002 - 2002
02-R1-06	WERC	1	Spring habitat use of northern pintails	Joe Fleskes	**	2002 - 2002
02-R1-07	WERC	1	San Francisco Bay salt pond restoration	Keith Miles	**	2001 - 2002
02-R2-01	CRU	2	Effects and control of Asian tapeworm in Rio Yaqui populations at San Bernadino NWR, Arizona	Scott Bonar	William Radke	2002 - 2002
02-R2-03	CRU	2	Status and genetic structure of headwater catfish	William Fisher	**	2002 - 2002
02-R2-04	CRU	2	Native fish community restoration in Rio Grande cutthroat trout management	Colleen Caldwell	**	2002 - 2004
02-R2-05	CRU	2	Distribution patterns and time activity budgets of northern pintails wintering in central New Mexico and Chihuahua, Mexico	Bruce Thompson	**	2002 - 2002
02-R2-06	CRU	2	Effects of water development on desert bighorn sheep at Cabeza Prieta, NWR, AZ	Scott Bonar	**	2002 - 2006
02-R3-01	PWRC	3	Prioritizing and coordinating conservation-based research on the Cerulean warbler (<i>Dendroica cerulea</i>)	Deanna Dawson and Petra Bohall Wood	**	2002 - 2002
02-R3-03	UMESC	3	Development of an internet web site for freshwater mussels of the Upper Mississippi River	Mike Caucutt and Teresa Newton	**	2002 - 2002
02-R3-04	UMESC	3	Rail survey for the bi-county area of Pike County in Missouri and Illinois	Eileen Kirsch	**	2002 - 2002
02-R3-05	UMESC	3	Habitat classification for the eastern massasauga rattlesnake (EMR) in the Black River Bottoms of La Crosse and Trempealeau, WI	Larry Robinson	Jim Nissen	2002 - 2002
02-R3-06	UMESC	3	River floodplain connectivity and lateral fish passage	Barry Johnson	**	2002 - 2002
02-R3-07	UMESC	3	Fish host identification of Glochidia of the endangered winged mapleleaf mussel (<i>Quandula fragosa</i>) at the Upper Midwest Environmental Science Center	Teresa Newton	Pam Thiel	2002 - 2002
02-R3-08	PWRC	3	Establishment of an eastern migratory flock of whooping crane (<i>Grus americana</i>) (monitoring and flock maintenance)	George Gee	Robert Russell	2002 - 2002
02-R3-09	NWHC	3	Susceptibility of sandhill cranes to West Nile Virus	Kim Miller, Glenn Olson	Tom Stehn	2002 - 2002
02-R4-01	WRD	4	Identify rivers in the Lower Tennessee-Cumberland and Southern Appalachians ecosystems for mussel and aquatic snail introductions	Steven Ahlstedt	**	2002 - 2003
02-R4-02	CRU	4	Survey of Dan and Roanoke river drainages in NC and VA for a potentially new species of Unionid mussel	Richard Neves	Tammy Newcomb	2002 - 2003
02-R4-03	CRU	4	Evaluating American oystercatchers as indicators of resource conditions on the Outer Banks of North Carolina	Theodore R. Simons	Scott Johnston	2002 - 2004
02-R4-04	PWRC	4	Effects of disturbance and predation on nesting American oystercatchers	Joe Meyers	Keith Watson	2002 - 2003
02-R4-05	CRU	4	Distribution and habitat preferences of langostino, Macrobrachium carinus, in Puerto Rican stream: effects of elevation and pool depth	Allen Covich	Beverly Yoshioka	2002 - 2003
02-R4-06	CRU	4	Woodcock radio-telemetry (migration, habitat selection, seasonal survival) with expert workshops	David Kremetz	**	2002 - 2004
02-R4-07	FISC	4	Current distribution and control of the invasive Old World climbing fern on the Arthur R. Marshall Loxahatchee NWR and in the South Florida ecosystem	Donald L. DeAngelis	Laura Brandt	2002 - 2005
02-R4-08	CRU	4	The development of a decision support tool and procedures for evaluating dam operation in the Southeastern United States	Elise Irwin	Susan Cielinski	2002 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
02-R4-09	CRU	4	A behavioral comparison of wild and hatchery-reared shortnose sturgeon in the Savannah River, SC	J. Jeffery Isely	Tom Sinclair	2001 - 2003
02-R5-01	CRU	5	Micro-satellite DNA genetic analysis of hairs from the Delmarva fox squirrel (<i>Sciurus niger cinereus</i> : DFS) and the eastern gray squirrel (<i>S. carolinensis</i> ; GS): Test of samples containing hairs of both species	Raymond D. Dueser, Nancy D. Moncrief	Mary Ratnaswamy	2002 - 2002
02-R5-02	CRU	5	Tuckahoe fishway monitoring study	Steven Hughes	David Sutherland	2002 - 2002
02-R5-03	External	5	Feasibility study for U.S. Fish and Wildlife Service-based fish and mussel propagation facility in the Upper Tennessee River Basin	Jefferson L. Waldon	**	2002 - 2002
02-R5-04	PWRC	5	Winter ecology of the long-tailed duck (<i>Clangula hyemalis</i>) in the Chesapeake Bay	Matt Perry	**	2002 - 2003
02-R5-05	PWRC	5	Population assessment of American oystercatchers along the Atlantic Coast from Florida to Massachusetts	Marshall Howe	**	2002 - 2002
02-R5-06	External	5	Status, population centers, and monitoring of New England cottontails	John A Litvaitis	**	2002 - 2002
02-R6-01	CRU	6	Fish losses associated with irrigation diversion on the Wind River Indian Reservation, WY	Eric Bergersen	**	2002 - 2003
02-R6-02	NRMSC	6	Genetic parameters of bison at Fort Niobrara National Wildlife Refuge and Sully's Hill Game Refuge	Pete Gogan	Kathy McPeak	2002 - 2002
02-R6-03	FORT	6	Preliminary development of a monitoring program for Wyoming toad populations at Mortenson Lake National Wildlife Refuge	Erin Muths	Mary Jennings	2002 - 2002
02-R6-04	FORT	6	Genetic comparison of trumpeter swan populations	Sara J. Oyler- McCance	**	2002 - 2005
02-R6-05	FORT	6	Plague database for wildlife in western North America	Dean Biggins	**	2002 - 2002
02-R6-06	NRMSC	6	Tamarisk (<i>Tamarix ramosissima</i>) coordination and management workshop	NRMSC	**	2002 - 2002
02-R7-01	ASC	7	Yellow-billed loons breeding in Alaska: identifying marine habitats during summer, migration, and winter	Joel Schmutz	**	2002 - 2003
02-R7-02	ASC	7	Sea otter foraging behavior and population status in the Aleutian Islands and the Alaska Peninsula	Jim Bodkin	**	2002 - 2002
02-R7-03	ASC	7	Dramatic population declines in the Kittlitz's murrelet: assessing the magnitude and potential causes of the decline	John Piatt	**	2002 - 2004
02-SP-01	PWRC	9	Methods for estimation of waterfowl brood densities in the Prairie Pothole Region	Jim Nichols	**	2002 - 2002
03-IA-01	LSC	9	Computer habitat modeling for key native plants in international trade.	John Young and Frank van Manen	Patricia Ford	2003 - 2003
03-R1-01	FRESC	1	An evaluation of the use of isotopes in defining the geographic origin of vertebrates in North America.	Susan Haig	Edgard Espinoza	2003 - 2003
03-R1-02	CRU	1	Castle Rock NWR seabird study	Walt Duffy	**	2003 - 2003
03-R1-03	FRESC	1	Reconsideration of genetic conservation units in Western Snowy Plovers: Response to July 2002 de-listing petition.	Susan Haig	Fred Seavey	2003 - 2003
03-R1-04	PIERC	1	Risk assessment for West Nile Virus on Endemic Hawaiian Avifauna: Potential Impacts and Evaluation of Selected Non-native species as reservoir hosts.	Dennis A. LaPoine, Carter T. Atkinson, Christopher Brand	Marilet Zablan	2003 - 2003
03-R1-05	External	1	Distribution, demography, and behavior of Washington ground squirrels (<i>Spermophilus washingtoni</i>) in Central Washington.	Paul Sherman	Randy Hill	2005 - 2009
03-R1-06	WERC	1	Evaluation and criteria development for horizontal plate fish screens.	Matthew Mesa	Gayle Barbin Zydlewski	2003 - 2004
03-R1-07	CRU	1	Survival of Sage Grouse chicks in the Northern Great Basin.	Robert Anthony	Michael Gregg	2003 - 2003
03-R1-08	WERC	1	Spring habitat use of Northern Pintails in the Klamath Basin.	Joseph Fleskes	Brad Bortner	2003 - 2003
03-R1-09	WERC	1	Science support of wetlands restoration of salt ponds in San Francisco Bay.	Keith Miles, John Takekawa	Joelle Buffa	2003 - 2005
03-R1-10	WERC	1	Survival and causes of mortality of Sage Grouse in Mono County, California.	Michael Casazza, Joseph Fleskes, Michael R. Miller	Kevin Kritz	2003 - 2005
03-R1-11	WERC	1	Population modeling for Lane Mountain milk-vetch (<i>Astragalus jaegerianus</i>).	Kathryn McEachern	Connie Rutherford	2003 - 2004
03-R1-12	WERC	1	Monitoring partners for Fish and Wildlife Habitat Restoration Program Project Areas for use by federally threatened giant garter snakes (<i>Thamnophis gigas</i>).	Glenn D. Wylie	Daniel Strait	2003 - 2004
03-R2-01	CRU	2	Effects of fire on Yuma clapper rails and California black rails.	Courtney J. Conway	Ken Edwards	2003 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
03-R2-02	PWRC	2	Multiple life stage tracking of the Houston toad (<i>Bufo houstonensis</i>) using passive and active methodologies.	Jeffrey Hatfield	Charlie Sanchez	2003 - 2004
03-R2-03	WRD	2	Assessment of vulnerability of Eurycea associated with cretaceous limestone aquifers of South Central Texas	Eric Strom	Patrick Conner	2003 - 2004
03-R2-04	CRU	2	Instream flow studies in a key Southeastern Oklahoma stream.	William L. Fisher	Patrick Conner	2003 - 2003
03-R2-05	CRU	2	Ecology of mountain lions in a priority recovery area for the endangered desert bighorn sheep: San Andreas National Wildlife Refuge.	Louis C. Bender	Mara Weisenberger, Kevin Cobble	2003 - 2007
03-R3-01	NPWRC	3	Plant community and wildlife response to hydrologic changes within and adjacent to Mingo NWR.	Murray Laubhan, Leigh Fredrickson, Carl Korschgen	Charley Shaiffer	2003 - 2004
03-R3-02	GLSC	3	Lake sturgeon (<i>Acipenser fulvescens</i>) movements, spawning habitat, and restoration in the Detroit River.	Bruce Manny	Tracy Hill	2003 - 2004
03-R3-03	UMESC	3	Use of therapeutic agents to control mortality associated with saprolegniasis on lake trout eggs (<i>Salvelinus namaycush</i>), hydrogen peroxide versus formalin.	Jeff Rach	Dale Bast	2003 - 2003
03-R3-04	NPWRC	3	Canada lynx ecology in Minnesota.	L. David Mech, Christopher L. Burdett, Gerald Niemi	Jean Cochrane	2003 - 2005
03-R3-05	CERC	3	Development of laboratory methods for propagating the endangered Topeka Shiner (<i>Notropis topeka</i>).	Mark L. Wildhaber	Scott Yess	2003 - 2003
03-R3-06	UMESC	3	Modeling landscape habitat suitability for the Cerulean Warbler across the range of species.	Melinda Knutson, Wayne E. Thogmartin	Tom Will	2003 - 2003
03-R3-07	NPWRC	3	Wetland invertebrate response to three different wetland management treatments (drawdown, prescribed burn, and drawdown and prescribed burn) at Agassiz National Wildlife Refuge.	Chip Euliss, Leigh Fredrickson	Soch Lor	2003 - 2004
03-R3-08	GLSC	3	Are splake reproducing in Lake Superior?	Wendy Lee Stott, Lee Newman	Lee Newman	2003 - 2003
03-R3-09	PWRC	3	Dose response to Sandhill Cranes to West Nile Virus vaccine.	Glenn H. Olsen, Kim Miller, Douglas Docherty, Louis Sileo	Robert Russell	2003 - 2003
03-R3-10	FORT	3	Population estimates for migrating shorebirds in the National Wildlife Refuge systems of central North America.	Adrian Farmer	Frank Durbian	2003 - 2004
03-R3-11	UMESC	3	Improving electrofishing methods used to assess and sample lake sturgeon populations	Mark P. Gaikowski	**	2003 - 2005
03-R4-01	WRD	4	Provide field assistance for the reintroduction, augmentation, and expansion of listed and species of concern mussels populations in the Tennessee and Cumberland Rivers and the Mobile Basin.	Steve Ahlstedt, Dick Neves, Dave McKinney	Bob Butler	2003 - 2005
03-R4-02	CRU	4	Longleaf systems and carbon sequestration.	Barry Grand	Frank Bowers	2003 - 2006
03-R4-03	CRU	4	Augment and expand existing endangered and species of concern mussel populations in the upper Tennessee and Cumberland River systems, Tennessee.	Dick Neves	Bob Butler	2003 - 2006
03-R4-04	WFRC	4	Laboratory testing of native cyprinids and other species for susceptibility to spring viremia of carp virus, and introduced viral pathogen of fish.	James Winton	Robert Bakal	2003 - 2003
03-R5-01	CRU	5	Baseline assessment of neotropical migrant landbird stopover in the lower Chesapeake Bay region for conservation planning and protection.	Ted Simmons	Andrew Milliken	2003 - 2004
03-R5-02	PWRC	5	Evaluation of American woodcock populations and habitat to assess potential biases in the disturbance of Singing-ground survey routes.	Daniel McAuley, John Sauer	George Haas	2003 - 2004
03-R5-03	FRESC	5	Program for Regional and International Shorebird Monitoring (PRISM).	Jon Bart	Scott Johnston	2003 - 2004
03-R5-04	PWRC	5	Identifying the cause of a biological invasion: Comparing salinity and flooding tolerances and assessing competitiveness of native and nonnative populations of <i>Phragmites australis</i> .	Glenn Guntenspergen	Jed Brown	2003 - 2004
03-R5-05	PWRC	5	Recreational impacts on shorebird use of National Wildlife Refuge beach fronts during the southward migration.	William Kendall	**	2004 - 2005
03-R5-06	CRU	5	Population dynamics of the Indiana bat (<i>Myotis sodalis</i>) in the Champlain Valley, VT and NY.	Therese Donovan	**	2003 - 2005
03-R5-07	LSC	5	Bay-wide tagging study to assess spawning migration and population size of horseshoe crabs in Delaware Bay.	David R. Smith	Michael Millard	2003 - 2005
03-R5-08	CRU	5	Freshwater mussel survey of Copper Creek, Virginia, and propagation of the federally endangered Purple Bean (<i>Villosa perpurpurea</i>).	Dick Neves	Shane Hanlon	2003 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
03-R5-09	LSC	5	Restoration of hatchery-impacted streams by removal of phosphorus.	Philip Sibrell	John Fletcher	2003 - 2003
03-R6-01	FORT	6	Riparian willow restoration along the Illinois River at Arapaho NWR, Colorado.	Gregor Auble, Murray Laubhan, Michael Scott	Greg Langer	2003 - 2008
03-R6-02	CRU	6	Develop Long-billed curlew (<i>Numenius americanus</i>) rangewide monitoring guidelines.	Thomas Stanley, Susan Skagen, Roland Redmond	Stephanie Jones	2004 - 2005
03-R6-03	FORT	6	Effects of ungulate browsing on post-fire recovery of cottonwoods and willows: implications for management of riparian forests.	Michael Scott	Lamont Glass	2003 - 2006
03-R6-04	NPWRC	6	Habitat use, movements, survival, and residency times of female northern pintails in Nebraska's Rainwater Basin during spring migration.	Robert Cox, Jr.	John Cornely	2003 - 2004
03-R6-05	NRMSC	6	Evaluation of capture-mark-recapture using radio-telemetry and aerial survey to estimate grizzly bear numbers in the Greater Yellowstone Ecosystem.	Chuck Schwartz	Chris Servheen	2003 - 2004
03-R6-06	NWHC	6	Immunization of black-footed ferrets and prairie dogs against sylvatic plague.	Tonie Rocke	Mike Lockhart	2003 - 2004
03-R6-07	CRU	6	Status survey of mussels at Marais des Cygnes National Wildlife Refuge.	Charles Rabeni	Tim Menard	2003 - 2005
03-R6-08	FORT	6	Winter survey design for mountain plovers in Imperial Valley.	Fritz Knopf	Robert Leachman	2003 - 2004
03-R7-02	ASC	7	Development of a remotely applied telemetry tag for Pacific walrus.	Chad Jay	Joel Garlich-Miller	2003 - 2003
03-R7-03	ASC	7	Genetic differentiation of breeding and wintering bristle-thighed curlews.	Robert Gill, Sandra Talbot	Richard Lancot	2003 - 2003
03-SP-01	NPWRC	9	Assessing accuracy in waterfowl aging techniques.	Robert Cox, Jr.	**	2004 - 2004
04-R1-01	WFRC	1	Survival and tag retention of larval and recently metamorphosed pacific lamprey with coded wire tags	Jennifer M. Bayer	Sam Lohr	2004 - 2004
04-R1-02	CRU	1	Development and application of a habitat distribution and selection model for identifying potential reintroduction sites for pygmy rabbits	Robert Anthony	Kelly Hogan	2004 - 2006
04-R1-03	CRU	1	Inventory and monitoring manual: Standardized methods for monitoring the status and trends of seabirds breeding in the California Current System.	Daniel Roby, Michelle Reynolds	Maura Naughton	2004 - 2004
04-R1-04	External	1	Winter tolerance to cold hypoxia by Oregon spotted frogs, cascade frogs, and bullfrogs	Jay Bowerman	Nancy Gilbert	2005 - 2005
04-R1-05	PWRC	1, 3, 5	Biological data management for the National Wildlife Refuge System	Bruce Peterjohn, Sam Droege	Kevin Kilbride	2004 - 2006
04-R1-06	PIERC	1	Palmyra Atoll NWR native Pisonia forest emergency.	Lloyd Loope	Earl Campbell	2004 - 2004
04-R1-07	PIERC	1	Laysan Duck monitoring and selection of recruits for translocation	Michelle Reynolds	Holly Freifeld	2004 - 2004
04-R1-08	FORT	1	Klamath River Hydropower Relicensing Technical Assistance	Sharon Campbell	**	2004 - 2004
04-R1-09	PWRC	1	Ecological Evaluation of Continental Mine Cleanup	Nelson Beyer	**	2004 - 2004
04-R2-01	LSC	2	Apache trout: Genetic broodstock management plan	Steve Rideout	Robert David	2004 - 2004
04-R2-02	CERC	2	Why do egrets and herons nest in urban environments? Establishing causality and associated health hazards	Miguel Mora	Bill Howe	2004 - 2006
04-R2-03	NWRC	2	Using prescribed fire to reduce the risk of catastrophic wildfire for habitat of the endangered golden-checked warbler at the wildland-urban interface.	Jim Grace	Deborah Holle	2004 - 2008
04-R2-04	NWRC	2	Population genetics of endangered plant species in the lower Rio Grande corridor	Steve Travis, James Manheart	Loretta Pressly	2004 - 2006
04-R3-02	CERC	3, 9	Characterization and development of alarm substance pheromone to control invasive bighead and silver carp	Ed Little	Michael Hoff	2004 - 2006
04-R3-03	UMESC	3, 4, 5	Maps, models, and tools for conservation planning: focus on the cerulean warbler	Wayne Thogmartin	Tom Will, Dean Demarest	2004 - 2006
04-R3-04	CERC	3	Evaluation of contaminant risks to the endangered Tumbling Creek cavesnail	John Besser	Paul McKenzie	2004 - 2005
04-R3-05	FORT	3	Population estimates for migrating shorebirds in National Wildlife Refuges and associated state and private lands of the Lower Missouri River ecosystem	Adrian Farmer	Frank Durbian	2004 - 2005
04-R3-06	NPWRC	3	Evaluating critical management assumptions to guide habitat restoration and protection strategies in the tallgrass portion of the U.S. prairie pothole region	Marsha Sovada	Dan Hertel	2004 - 2005
04-R3-07	PWRC	3	Susceptibility of vaccinated sandhill crane chicks to West Nile Virus.	Glenn Olson	Robert Russell	2004 - 2004
04-R3-08	UMESC	3	Safety of fish therapeutants to mussel glochidia attached to fish gills	Jeff Rach	Doug Aloisi	2004 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
04-R3-09	PWRC	3	Improved training and production of whooping crane chicks for the Whooping Crane Eastern Partnership at the Patuxent Wildlife Research Center	John French	Robert Russell	2004 - 2005
04-R3-10	CRU	3	Monitoring of fish movements patterns following modification of tow streambed grade control structures in Turkey Creek, Cass County, Iowa	Clay Pierce	Joanne Grady	2004 - 2005
04-R4-01	FISC	4	New Estimates of population parameters for manatee population models, based on the multi-agency manatee photo-identification database	Catherine Langtimm	James Valade	2004 - 2004
04-R4-02	WRD	4	Effects of sediment toxicity from coal mining on endangered mussel populations in the Upper Tennessee and Cumberland river drainages	Gregory Johnson, Steven Ahlstedt, Richard Neves	Rob Tawes	2004 - 2006
04-R4-03	CRU	4	Optimizing field management for the wintering grassland bird community in the Coastal Plain of South Carolina. (Phase II)	Craig Allen	Mark Purcell	2004 - 2004
04-R4-04	CRU	4	Dynamic models of shorebird migration and their application to shorebird conservation in the Southeastern United States: an adaptive management framework	Jaime Collazo	Fred Johnson, Jon Andrew, Chuck Hunter	2004 - 2005
04-R5-02	LSC	5	Development of a computer program to identify genetically optimal matings for broodstock management	Ben Letcher	Meredith Barton	2004 - 2005
04-R5-04	CRU	5	Predicting responses of snowshoe hares and Canada lynx to alternative forest harvesting scenarios across multiple spatial scales in Northern Maine	William Krohn	Mark McCollough	2004 - 2006
04-R5-05	LSC	5	Imperiled Freshwater Mussels: the need for research to prevent the introduction and transmission of pathogens and diseases	Clifford Starliper	John Coll	2004 - 2005
04-R5-06	LSC	5	Acid and Aluminum impacts on Atlantic salmon smolt survival	Stephen D. McCormick	Carl Burger	2004 - 2005
04-R6-01	NPWRC	6	Effects of grazing regimes on distribution and abundance of grassland birds at Valentine National Wildlife Refuge	Pam Pietz	Melvin Nenneman	2004 - 2006
04-R6-02	CRU	6	Evaluation and action plan for protection of 15 threatened alluvial populations of bull trout in Glacier National Park, Montana	Chris Guy	Wade Fredenberg	2004 - 2007
04-R6-03	NRMSC	6	Evaluation of source-sink dynamics in Yellowstone grizzly bears	Chuck Schwartz	Christopher Servheen	2004 - 2005
04-R6-04	CRU	6	Effects of incidental takings on the population viability of Great Plains piping plover	Charles Rabeni, Mark Ryan	Karen Kreil	2005 - 2008
04-R6-05	CRU	1, 2, 6	The temporal and spatial distribution of RMP sandhill cranes in response to habitat conditions determined by climate, geomorphology, and land use on public and private lands along an intermountain corridor	Chuck Berry	Carl Mitchell	2004 - 2007
04-R7-01	ASC	7	Population Health Variables in the Kodiak Archipelago, Alaska (Formerly: Sea otters in peril: comparing life history and population health variables pre- and post decline in the Kodiak Archipelago)	James Bodkin, Daniel Monson	Angela Doroff	2004 - 2005
04-R7-02	CRU	7	Non-lethal estimation of energy content of Yukon River chum salmon	Joe Margraf	Jeff Adams	2004 - 2004
04-R7-03	ASC	7	Estimating regional and statewide trends in the size of breeding populations of landbirds in Alaska from 1993-2002	Coleen Handel	Steven Matsuoka	2004 - 2005
04-R7-04	CRU	7	Over-winter adult mortality on the Porcupine caribou herd during a population decline	Brad Griffith	Tara Wertz	2004 - 2006
04-R7-05	ASC	7	Winter distribution and ecology of Vancouver Canada geese	Jerry Hupp	Russell Oates	2004 - 2006
04-R7-06	ASC	7	The decline of the Chisana caribou herd: assessing population dynamics and recovery efforts	Layne Adams	Ted Swem	2004 - 2004
04-R9-01	LSC	9	Computer habitat modeling for key native plants in international trade	John Young	**	2004 - 2004
04-R9-02	CRU	9	Pilot reward banding study of mourning doves	Dave Otis	Dave Dolton	2004 - 2005
04-R9-03	LSC	9	Conference on the status, effectiveness, and needs of fish passage technologies	Steve Rideout	Christopher Lowie	2004 - 2004
04-R9-05	PWRC	9	Bald eagle post-delisting monitoring study design	John Sauer	Jody Millar	2004 - 2005
04-R9-06	CRU	9	Conservation status of paddlefish (<i>Polyodon spathula</i>) in trade: bycatch in commercial paddlefish fisheries	Phillip Bettoli	Marie Maltese	2004 - 2004
04-R9-07	FORT	9	Quantity, quality and support for research in the U.S. Fish and Wildlife Service: an organizational assessment	Burton Lee Lamb	**	2004 - 2004
04-R9-08	CRU	9	Western Mallard Population Model	Mike Conroy	**	2004 - 2004
05-R1-01	FRESC	1	Definition of Genetic Conservation units in Western Snowy Plovers	Susan Haig	Fred Seavey	2005 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
05-R1-03	FRESC	1	Monitoring habitat use and associations of Shrubsteppe Bird communities and their response to habitat management	Susan Earnst	David Smith	2005 - 2006
05-R1-04	FRESC	1	Thresholds of Recovery - Cheatgrass dominance in Wyoming big sagebrush communities after fire and fire surrogate treatments	Cindy Salo	Rachelle Huddleston-Lorton	2005 - 2007
05-R1-05	GLSC	1	Biochemical Approaches for Age Determination in larval Lampreys - A Feasibility Study	Roger Bergstedt, Rodger Harvey and Se-Jong Ju	Jennifer Stone	2005 - 2006
05-R1-06	CRU	1	Exploring Feasibility of Proposed Control Strategies for New Zealand Mud Snails at Fish Hatcheries	Christine Moffitt	Howard Burge	2005 - 2006
05-R1-07	FRESC	1	Black Oystercatcher status on the Pacific Coast and Long-term Monitoring Plan	Susan Haig	Sue Thomas	2005 - 2005
05-R1-08	FRESC	1	Assessment of Potential Limiting Factors for Translocation of Endangered Mariana Swiftlets from Saipan to Rota	Susan Haig	Fred Amidon	2005 - 2005
05-R1-09	PIERC	1	Independent Measures for Assessing Accuracy of PCR Diagnostic Tests for Malaria in Hawaiian Birds	Carter Atkinson	Donna Ball	2005 - 2005
05-R1-10	PIERC	1	Efficacy of Feral Pigs Removals at Hakalau National Wildlife Refuge	Steven Hess	Jack Jeffrey	2005 - 2006
05-R1-11	WFRC	1	Population Estimate and Habitat Assessment for the Endangered Clover Valley Speckled Dace	Gary Scopettone	Bridget Nielsen	2005 - 2005
05-R1-12	WFRC	1	Habitat Assessment and Determination of Distribution and Abundance of the Threatened Railroad Valley Springfish	Gary Scopettone	Bridget Nielsen	2005 - 2005
05-R1-14	WERC	1	Movement and Foraging Patterns of Sea Otters at San Nicolas Island	Jim Estes	Greg Sanders	2005 - 2005
05-R1-15	FRESC	1 (CNO)	Status of Nesting California Brown Pelicans, Cormorants, and Osprey in Coastal Baja California, Sonora, and Sinaloa, Mexico, 1977, 1992-93, and 2005	Charles Henny	David Pereksta	2005 - 2007
05-R1-16	CRU	1 (CNO)	Determination of the subspecies status of the Palm Springs round-tailed ground squirrel: Implications for conservation and listing	Dana Winkleman, Marlis Douglas	Lianne Ball	2005 - 2006
05-R1-17	FORT	1 (CNO)	Extend Klamath River young of year salmon habitat monitoring and modeling	Sam Williamson	Randy Brown	2005 - 2007
05-R2-01	FORT	2	To determine if physical and behavioral conditioning increases short-term survival of hatchery reared bonytail and razorback suckers exposed to large predators	Gordon Mueller, Jeanette Carpenter	Chester Figiel	2005 - 2008
05-R2-02	NWRC	2	Effects of prescribed burning on marsh elevation change and the risk of wetland loss	Karen McKee	Andy Loranger	2005 - 2008
05-R2-03	PWRC	2	Estimating detection probabilities of golden-cheeked warblers	Jeff Hatfield, Floyd Weckerly	Alisa Shull	2005 - 2006
05-R2-04	CRU	2	Reproductive ecology, behavior, and dietary studies of a captive herd of Sonoran Pronghorn on the Cabeza Prieta NWR	Scott Bonar, Paul Krausman	John Morgart	2005 - 2006
05-R2-05	CERC	2	Effects of Antimycin A, Round-up, Garland, and copper, cadmium, and selenium on the threatened Chiricahua Leopard Frog	Ed Little	Marilyn Meyers	2005 - 2006
05-R2-06	FORT	2	Bird migration patterns in the arid Southwest	Janet Ruth	Bill Howe	2005 - 2007
05-R3-01	UMESC	3	Elimination of Renibacterium salmoninarum, the causative agent of bacterial kidney disease, from Lake Trout eggs and juveniles	Mark Gaikowski	Doug Aloisi	2005 - 2007
05-R3-02	GLSC	3	The critical role of hydrology in coastal wetland habitat restoration and management	Kurt Kowalski	Doug Brewer	2005 - 2005
05-R3-03	CRU	3	Estimation and evaluation of demographic parameters required for the recovery of the endangered Great Lakes Piping Plover population	David Andersen, Francesca Cuthbert	Jack Dingleline	2005 - 2005
05-R3-04	CRU	3	Habitat use of post-fledging forest nesting songbirds in the northern hardwood-coniferous forests in Northern MN	David Andersen	Steve Wilds	2005 - 2008
05-R3-05	CERC	2, 3	Determine the sensitivity of Ozark mussels to zinc and lead in water and sediment	Chris Ingersoll	**	2005 - 2006
05-R4-01	NWRC	4	Ecoregional Science and Technology Support (ESTS) – Lower Mississippi Valley Phase I.	Helen Whiffen, Larry Handley	Bill Uihlein, Ron Nassar	2005 - 2007
05-R4-02	WRD	4	Collection of Hydrologic Information to Delineate the Extent of Local Water Recharge to Selected Caves in the Ozark Plateaus of Arkansas and Oklahoma	Dave Freiwald	**	2005 - 2007
05-R4-03	CRU	4	Sampling Vulnerability of Invasive Freshwater Fishes: Snakeheads and Flathead Catfish.	Tom Kwak, Mike Holliman	Mark Cantrell	2005 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
05-R4-04	CRU	4	Habitat Characterization and Distribution Surveys for Chucky Madtom (<i>Noturus elegans</i>) in Tributaries to Little Chucky Creek.	James Layzer	Geoff Call	2005 - 2005
05-R4-05	PWRC	4	Estimating survival of breeding birds in a bottomland hardwood forest.	Daniel Twedt	Jerome Ford	2005 - 2005
05-R4-06	PWRC	4	Aerial transect surveys to compare abundance of mallards in the Mississippi Alluvial Valley (MAV) between winters 1988-1990 and the present.	Kenneth Reinecke	Randy Wilson	2005 - 2005
05-R4-07	GD	4	Paleoecology of tree islands in Arthur R. Marshall Loxahatchee NWR: understanding fire and water cycles in the context of current and future water management.	Debra Willard	Laura Brandt	2005 - 2005
05-R4-08	FISC	4	Altered habitat of endangered or threatened freshwater mussels in the Apalachicola River floodplain, Florida, due to changes in river channel morphology and discharge.	Helen Light	Holly Blalock-Herod	2005 - 2005
05-R5-01	PWRC	5	Bird and Bat Migration Over Appalachian Ridges in the Mid-Atlantic Region	Deanna Dawson	Randy Dettmers, Alex Hoar	2005 - 2007
05-R5-02	CRU	5	Status Review and Conservation of Blanding's Turtles in New England	Paul Sievert, Malcolm Hunter	Mark McCollough, Susi von Oettingen	2005 - 2006
05-R5-03	CRU	5	Feeding Regimes for Maintaining a Suite of Endangered Freshwater Mussels in Hatchery Settings	Richard Neves	Catherine Gatenby	2005 - 2006
05-R5-04	PWRC	5	Marsh Elevation Dynamics at Blackwater NWR Using Surface Elevation Tables	Donald Cahoon	Dixie Birch	2005 - 2005
05-R5-05	CRU	5	Using Adult Sea lampreys to Investigate Potential Alternative Methods of Controlling Population Abundance	Donna Parrish	Bradley Young	2005 - 2006
05-R6-01	FORT	6	Synthesis of existing information on meadow jumping mice in the northern Great Plains	Paul Cryan	Pete Plage	2005 - 2005
05-R6-02	FORT	6	Distribution survey of meadow jumping mice subspecies in eastern Wyoming, western South Dakota, and southeastern Montana	Paul Cryan, Jerry Godbey	Pete Plage	2005 - 2005
05-R6-03	NPWRC	6	Post harvest management of agricultural fields in Nebraska's Platte River Valley: Influence on waste corn availability and migratory bird use	Mark Sherfy	Andy Bishop	2005 - 2007
05-R6-04	CRU	6	Freshwater mussels at Marais Des Cygnes NWR: Sediment load, microhabitat, minimum in-stream flows	Charles Rabeni	Tim Menard	2005 - 2007
05-R6-05	NRMSC	6	Evaluation of montane wetland management: can we improve waterbird fitness through habitat management?	Richard Sojda	Jeffrey Warren	2005 - 2008
05-R6-06	CERC	6	Ecological Risk Assessment of Herbicides Used to Control Invasive Plants: Maximizing Environmental Safety for Threatened and Endangered Fish	James Fairchild	Karen Nelson	2005 - 2005
05-R6-07	SBSC	6	Development of a Monitoring Protocol for Columbia Spotted Frog <i>Rana luteiventris</i>	Tim Graham	Marianne Crawford	2005 - 2005
05-R6-08	CRU	6	Life history requirements of sauger in the Wind River drainage upstream from Boysen Reservoir, Wyoming -- Phase III	Wayne Hubert	**	2005 - 2005
05-R7-01	ASC	7	Synthesis of seabird, marine mammal, and oceanography coordinated investigations (SMMOCI)	John Piatt	Vernon Byrd	2005 - 2006
05-R7-02	ASC	7	The decline of the Chisana Caribou Herd: Assessing population dynamics and recovery effects	Layne Adams	Ted Swem	2005 - 2007
05-R9-01	LSC	9	Application of calcein as dietary component for fish marking to enhance product evaluation and management capabilities	Dale Honeyfield	Thomas Bell	2005 - 2007
05-R9-02	FORT	9	Using genetic tools to obtain insight into colony dynamics of the endangered Indiana bat (<i>Myotis sodalis</i>)	Sara Oyler-McCance	Sean Kelly	2005 - 2007
05-R9-03	FRESC	9	Coordination of the 2006 International piping and snowy plover census and evaluation of census based population estimates	Sue Haig	Karen Kreil	2005 - 2006
05-R9-04	LSC	9	Demographic assessment of three key native plants in International trade in five Eastern States	John Young	Patricia Ford	2005 - 2005
05-R9-05	FISC	9	Adaptive habitat management for Florida scrub jays at Merritt Island National Wildlife Refuge.	Bob Dorazio	Fred Johnson	2005 - 2006
05-R9-06	PWRC	9	Evaluation of sampling methods for the use of digital aerial imagery in estimation of abundance of selected migratory bird aggregations	Bill Kendall	Mark Koneff	2005 - 2005

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
05-R9-07	PWRC	9	Development of a methodological framework for ecoregional scale landbird conservation planning in the forested avifaunal biomes of the United States	Dan Twedt	Bill Uihlein	2005 - 2007
06-R1-01	WFRD	1	Pre-restoration habitat use by Chinook salmon in the Nisqually estuary using otolith analysis, Nisqually NWR.	Reg Reisenbichler	Marian Bailey	2006 - 2006
06-R1-02	PIERC	1	Efficacy of a commercial fowlpox vaccine for protecting Hawaiian forest birds from pox virus infections	Carter Atkinson	Jay Nelson	2006 - 2006
06-R1-03	WFRD	1	Assessment of current use and productivity of fish in the lower White Salmon River prior to the removal of Condit Dam	Patrick Connelly	Larry Marchant	2006 - 2007
06-R1-04	CRU	1	Trumpeter Swan Lead Shot Poisoning	Christian E. Grue	Cindy Schexnider	2006 - 2006
06-R3-01	CRU	3	Evaluation of Sampling Protocols Used to Determine the Status and Trends of Rare and Endangered Missouri River Fishes	Craig Paukert	Tracy Hill	2006 - 2008
06-R3-02	UMESC	3, 5	Science support for development and review of National Wildlife Refuge System inventory and monitoring tools and products	Pat Heglund	Melinda Knutson	2006 - 2008
06-R3-03	CERC	3	Classification and Mapping of Natural and Semi-Natural Vegetation Communities at Big Muddy National Fish and Wildlife Refuge	Keith Grabner, Matthew Struckhoff	Barbara Moran	2006 - 2008
06-R3-04	GLSC	3	Fish spawning grounds in the Detroit River International Wildlife Refuge.	Bruce Manny	Jerry McClain	2006 - 2007
06-R3-05	FRESC	3	Phylogeography and Population Genetic Structure of Interior Least Terns	Susan Haig	Jane Ledwin	2006 - 2006
06-R3-06	UMESC	3	Translating regional population goals for bird species of concern into local habitat conservation objectives: overcoming the intervening impediments	Wayne Thogmartin	Tom Will	2006 - 2008
06-R3-07	LSC	3	Captive Breeding Management and Assessment of Augmentation Efforts with Multilocus Microsatellite DNA Genotypes in the Endangered Clubshell (<i>Pleurobema clava</i>)	Tim King, Cheryl Morrison	Leslie TeWinkel	2006 - 2007
06-R3-08	NRMSC	3	Advancing the Use of New Radar and Related Technologies	Rick Sojda, Pat Heglund	Leakhena Au	2006 - 2006
06-R3-09	GLSC, CERC	3	Plasma levels of estradiol, 11-ketotestosterone, and vitellogenin in lake sturgeon (<i>Acipenser fulvescens</i>) to determine the sex ratio in the Huron-Erie Corridor.	Jaquelyn Craig, Diana Papoulias	Jerry McClain	2006 - 2006
06-R3-10	FORT	3	Hydroecological Integrity Assessment Process (HIP) for Missouri Streams, Phase II	Jim Henriksen	Tracy Hill, Charlie Scott	2006 - 2006
06-R3-11	FRESC	3	Searchable web-based library-type database dedicated to studies of contaminants effects on bald eagles, ospreys, and peregrine falcons	Karen Steenhof	Jody Millar	2006 - 2006
06-R4-01	CRU, PWRC	4	Science Support for the Upper Coosa Basin Phase I	James T. Peterson, Mary C. Freeman	Robin Goodloe	2006 - 2009
06-R4-02	CERC	4	Adaptation and establishment of microchemical methods to analyze elemental patterns in calcified structures of sturgeon for determining origins and movements of freshwater sturgeon in the Mississippi and Missouri river basins.	Darin Simpkins	Karen Kilpatrick	2006 - 2007
06-R4-03	CRU	4	Development of population and habitat objectives for FWS Trust Resources in the Roanoke-Tar-Neuse-Cape Fear (RTNCF) Ecoregion of the South Atlantic Migratory Bird Initiative (SAMBI) Project Area	Jaime Collazo	Stephen Earson	2006 - 2009
06-R4-04	PWRC	4	Ratoning the early maturing rice variety 'Spring' as a waterfowl management practice in the Mississippi Alluvial Valley (MAV)	Ken Reinecke	Bill Uihlein	2006 - 2008
06-R4-05	CRU	4	Assessment of Bottomland Hardwood Forest Dynamics: Implications to Ivory-billed Woodpecker Habitat	Sammy King	Bill Uihlein	2006 - 2007
06-R5-01	HQ	5	Development of a habitat restoration and conservation prioritization tool for the Appalachian Mountains	Gabrielle Cannonico	Maureen Gallagher	2006 - 2008
06-R5-05	CRU	5	A Comprehensive Survey of Brook Trout Population Status within West Virginia in Support of the Eastern Brook Trout Joint Venture (EBTJV)	Patricia M. Mazik	Maureen Gallagher	2006 - 2006
06-R5-06	PWRC	5	Region Refuge Study data analysis intern and expert advice to implement adaptive management to inform refuge decisions	Mike Runge	Laura Mitchell	2006 - 2006
06-R5-07	PWRC	5	Biological Data Management for the National Wildlife Refuge System and Analysis of NWR Anuran Point Count Data	Bruce Peterjohn and Larissa Bailey	Harold Laskowski, Jan Taylor	2006 - 2006
06-R6-01	WERC	6	Understanding the dynamics of mercury in eared grebes (<i>Podiceps nigricollis</i>) on the Great Salt Lake, Utah.	Keith Miles	Nathan Darnell	2006 - 2006
06-R6-02	CRU	6	Investigations to improve Larval Pallid Sturgeon Survival During the Onset of Exogenous Feeding	Chris Guy	Molly Webb	2006 - 2006

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
06-R6-03	CRU	6	An assessment of grassland and shrubland habitat conditions at Browns Park National Wildlife Refuge	Wayne Hubert	Suzanne Beauchaine	2006 - 2006
06-R6-04	FRESC	6	Quantifying precision of the Midwinter Survey of the Rocky Mountain Population of Trumpeter Swans.	Jon Bart	Carl Mitchell	2006 - 2006
06-R7-01	ASC	7	Monitoring Arctic fox abundance in relation to spectacled eider nesting	Michael Anthony, Paul Flint, Joel Schmutz	Karen Laing	2006 - 2010
06-R7-02	ASC	7	Pacific walrus survey: estimating sighting variability	Chad Jay	Suzann Speckman	2006 - 2006
06-R7-03	ASC	7	Designing and implementing a long-term ecological inventory and monitoring program for National Wildlife Refuges in Alaska	Karen Oakley	Eric Taylor	2007 - 2009
06-R7-04	CRU	7	Developing ecological escapement goals for Pacific salmon: role of marine derived nutrients in the health and sustainability of resident and anadromous fishes of the Yukon drainage	Mark Wipfli	Eric Taylor	2006 - 2008
06-R7-05	CRU	7	Magnitude and rates of lake drying in wetlands on National Wildlife Refuges in Alaska	Brad Griffith	Eric Taylor	2006 - 2008
06-R8-01	NPWRC	1 (CNO)	Channel Island Fox: Identification of factors influencing breeding success and productivity in captive populations of the endangered Channel Island Fox	Marsha A. Sovada	Eric Morrisette	2006 - 2007
06-R8-02	FORT	1 (CNO)	Anadromous Fish Restoration in Reaches of the Klamath River, OR and CA -AND- Modeling Anadromous Fish Restoration in the J.C. Boyle and Copco Main Channel and Bypass Reaches of the Klamath River, OR and CA.	Sharon G. Campbell, Jim Henriksen	John Hamilton	2006 - 2006
06-R8-03	NWHC	1 (CNO)	Die-Off of Western Snowy Plovers (<i>Charadrius alexandrinus nivosus</i>) at San Diego Bay	Rex Sohn	Kevin Clark	2006 - 2006
06-R8-04	WFRC	1 (CNO)	Assessment of Independence Valley Speckled Dace and Associated Fish Population and Habitat in Relation to Downlisting Criteria.	Gary Scopettone	David Potter	2006 - 2008
06-R9-01	ASC	9	Walrus Survey	Chad Jay	Rosa Meehan	2006 - 2006
07-R1-01	WERC	1	Threatened and endangered Hawaiian seabirds: experimental telemetry to locate nest sites and improve population monitoring for recovery	Josh Adams	Holly Freifeld, Keith Swindle	2007 - 2009
07-R1-02	PWRC	1	Statistical support and survey design of a breeding-season inventory of snowy plovers in North America.	Andy Royle	Sue Thomas	2007 - 2007
07-R1-03	FRESC	1	Long-billed curlew (<i>Numenius americanus</i>) abundance, reproductive success, and habitat selection within the Columbia Basin of Oregon and Washington.	Sue Haig	Heidi Newsome, Randy Hill, and Howard Browers	2007 - 2008
07-R1-04	FRESC	1	Genetic evaluation of the Great Basin distinct population segment in Columbia Spotted Frogs (<i>Rana luteiventris</i>)	Sue Haig	Gary Miller, Keith Paul	2007 - 2007
07-R1-05	CRU	1, 6	Below-ground food production in habitats utilized by the Rocky Mountain population of greater sandhill cranes throughout the intermountain corridor.	Steven Chipps	Carl Mitchell, Christopher Servheen	2007 - 2008
07-R1-06	FRESC	1	Response of songbirds to restoration of an Oregon white oak habitat.	Joan Hagar	Jock Beall	2007 - 2008
07-R1-07	FRESC	1	Analysis of a decade of pre- and post-fire avian abundance on the Fitzner-Eberhardt Arid Lands Ecology Reserve Research Natural Area.	Susan Earnst	Heidi Newsome	2007 - 2007
07-R2-01	CRU	2	Assessing population size and prey selection patterns of Mexican gray wolves (<i>Canis lupus baileyi</i>) on the San Carlos and Fort Apache Indian Apache Reservations, Arizona	Melanie Culver	John Morgart	2007 - 2009
07-R2-02	CRU	2	Conservation Genetics of Four Fish Taxa in the Blue River, Oklahoma	William Fisher	Jerry Brabander	2007 - 2008
07-R2-03	CERC	2	Monitoring and managing roosting sites for Rafinesque's big-eared bats (<i>Corynorhinus rafinesquii</i>) on Trinity River National Wildlife Refuge.	Miguel Mora-Zacarias	Laurie Lomas	2007 - 2009
07-R2-04	FORT	2	Evaluation of revegetation methods for saltcedar-dominated xeric riparian areas along the Rio Grande, New Mexico	Patrick Shafroth	John Vradenburg	2007 - 2009
07-R2-05	CRU	2	Controlling Introduced Populations of Northern Pike	Scott Bonar	Paul Barrett	2007 - 2008
07-R2-06	CRU	2	Conservation genetics and population structure of Chiricahua leopard frogs in New Mexico, Arizona and Mexico	Melanie Culver	Melissa Kreutzian	2007 - 2009
07-R3-01	UMESC	3	A Survey of Eastern Massasauga, <i>Sistrurus catenatus catenatus</i> , in the Upper Mississippi River National Wildlife and Fish Refuge	James Nissen	James Nissen	2007-2008
07-R3-02	CRU	3	Effects of Commercial Harvest on Shovelnose Sturgeon	Clay Pierce, Michael Quist	Mike Oetker	2007-2008
07-R3-03	CRU	3	Topeka Shiner Nitrite Toxicity Testing	Ira Adelman, David Andersen	Mike Coffey	2007-2008

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
07-R4-01	CERC, CRU	4, 5	Assessing the sensitivity of endangered freshwater mussels to coal mining effluents to enhance recovery efforts in biodiversity hotspots of the Tennessee and Cumberland River drainages	Chris Ingersoll, Dick Neves	Steve Alexander, Cindy Kane	2007 - 2009
07-R4-02	CRU	4	Movements and Habitat Use of Pallid and Shovelnose Sturgeon in the Lower Mississippi River	Hal Schramm	Paul Hartfield	2007 - 2011
07-R4-03	WRD	4	The First Step in Defining Sustainable Aquascapes: Spatially-explicit Quantification of Water Quantity, Timing and Distribution on Southeast Region National Wildlife Refuges	Daniel Dalhoun, Elise Giddings	Stephen Earsom	2007 - 2010
07-R5-01	PWRC	5	Development of estimation methods for evaluation of management activities at the landscape scale using species occurrence modeling	Andy Royle	Tim Jones	2007 - 2009
07-R5-02	LSC	5	Identification of blueback herring population structure among the Connecticut River and New England rivers and within the Connecticut River	Ben Letcher	Janice Rowan	2007 - 2008
07-R5-03	PWRC	5	Modeling seabird distributions in offshore waters between Maine and Florida: Minimizing conflicts with proposed wind energy development	Allan O'Connell	Scott Johnston	2007 - 2009
07-R5-04	LSC	5	Acid and aluminum impacts on Maine Atlantic Salmon: Survey of labile aluminum and its impact on smolt migration and survival	Stephen McCormick	Carl Burger	2007 - 2008
07-R6-01	CRU	6	Identification of landscape-level stressors in the Upper Colorado River Ecosystem	Thomas Edwards	Deedee Runner	2007 - 2008
07-R6-02	LSC	6, 3	Development of single nucleotide polymorphism (SNP) markers for rapid inexpensive and standardized identification of pallid and shovelnose sturgeon larvae	David Galat	Steven Krentz, Tracy Hill	2007 - 2009
07-R6-03	NPWRC	6	Status of invasive species threats on Service-owned native prairies east or north of the Missouri River in North and South Dakota	Terry Shaffer	Bridgette Flanders-Wanner	2007 - 2009
07-R6-04	FORT, NWHC	6	Three year laboratory trial and field vaccination and flea control to assess invasions of plague into Conata Basin, South Dakota	Dean Biggins, Tonie Rockie	Pete Gober	2007 - 2010
07-R6-05	NRMSC	6	Estimating consumption rates of critical foods by grizzly bears in the Greater Yellowstone Ecosystem using isotopic analysis	Chuck Schwartz	Christopher Servheen	2007 - 2007
07-R6-06	CRU	6	The effects of wetland management and landscape characteristics on Black Tern (<i>Chlidonias niger</i>) and associated species breeding colonies	Abby Powell	Stephanie Jones	2007 - 2009
07-R6-07	WERC	6	The role of winter and spring resources on breeding propensity of Lesser Scaup: Could the spring condition hypothesis explain the continental decline of scaup?	Susan Wainwright-De La Cruz, John Takekawa	Jeffrey Warren	2007 - 2009
07-R6-08	NPWRC	6	Hydrologic and chemical dynamics of a managed alkali lake in South-Central North Dakota	Murray Laubhan	Gregory Knutsen	2007 - 2007
07-R6-09	NPWRC	6	Using GIS to identify habitat correlates of High Plains flock trumpeter swan use	Terry Shaffer	Andy Bishop	2007 - 2007
07-R7-01	ASC	7	Movement Patterns of Wintering Steller's Eiders (<i>Polysticta stelleri</i>) within Izembek and Nelson Lagoon Critical Habitat Units	Paul Flint	Ellen Lance	2007 - 2008
07-R7-02	ASC	7	Long Term Changes in Wetland Characteristics on the outer Yukon-Kuskokwim Delta, Alaska	Craig Ely, Paul Flint, Joel Schmutz, R. Michael Anthony, and Robert Gill	Fred Broerman, Brian McCaffery	2007 - 2009
07-R7-03	ASC	7	Intercontinental movements or year-round Alaska residency; migration of Yellow-billed Loons, a candidate species for ESA listing	Joel Schmutz	Kent Wohl	2007 - 2010
07-R7-04	ASC	7	Growth and Maturation of Young Moose Relative to Population Density and Habitat Quality	Layne Adams	Brad Scotton	2007 - 2008
07-R8-01	WERC	1 (CNO)	Mercury Bioaccumulation at San Luis NWR: Preliminary Assessment for TMDL Monitoring and Best Management Practices Development	Keith Miles	Thomas C. Maurer	2007 - 2009
07-R8-02	WERC	1 (CNO)	Effect of Prescribed Fire on the Federally Endangered San Francisco Garter Snake (<i>Thamnophis sirtalis tetrataenia</i>) in Coastal Southern San Mateo County, California	Glenn Wylie	Kate Symonds	2007 - 2008
07-R8-03	WERC	1 (CNO)	Distribution and Diet of Breeding California Gulls in Relation to Landfills in the South San Francisco Bay	Josh Ackerman, John Takekawa	Joelle Buffa	2007 - 2008
07-R9-01	CRU	9	An adaptive management framework for brook trout populations in Appalachia	Pat Mazik	Mike Weimer	2007 - 2009

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

USGS / FWS Science Support Partnership
Historical List of All Activities: FY2001 to FY2007
As of October 2006

Project ID	Science Center *	Supporting FWS Region(s)	Project Title	Principle Investigator(s)	FWS Project Officer(s)	Years Funded
07-R9-02	LSC	9	Habitat characterization, genetic diversity, and population abundance of American ginseng	John Young	Patricia Ford	2007 - 2009
07-R9-03	CERC	9	Framework assessment of risks to fish and wildlife associated with potential use of biosolids and treated wastewater on units of the NWR System	Susan Finger	Kevin Gilbride	2007 - 2007
07-R9-04	LSC	9	Development and pilot testing of a new fish disease management and control tool	Rocco Cipriano	Thomas Bell	2007 - 2008
07-R9-05	FORT	9	Forecasting the effects of agricultural practices on prairie wetlands: Implications for the conservation of migratory shorebirds	Susan Skagen	Brad Andres	2007 - 2009

* See final page for science center acronym list.

** USGS records do not include FWS Project Officers for all activities, especially in earlier years. If you can fill in any of these blanks, please contact Steve Hilburger (shilburger@usgs.gov).

List of USGS Science Center Acronyms

ASC	Alaska Science Center	http://alaska.usgs.gov/
CERC	Columbia Environmental Research Center	http://www.cerc.usgs.gov/
CRU	Cooperative Research Units	http://www.coopunits.org/coopunits/app
External	Non-USGS Facility	
FISC	Florida Integrated Science Center	http://fisc.er.usgs.gov/
FORT	Fort Collins Science Center	http://www.fort.usgs.gov/
FRESC	Forest and Rangeland Ecosystem Science Center	http://fresc.usgs.gov/
GD	Geology Discipline	http://geology.usgs.gov/
GLSC	Great Lakes Science Center	http://www.glsc.usgs.gov/
HQ	Headquarters	http://www.usgs.gov
LSC	Leetown Science Center	http://www.lsc.usgs.gov/
NPWRC	Northern Prairie Wildlife Research Center	http://www.npwrc.usgs.gov/
NRMSC	Northern Rocky Mountain Science Center	http://www.nrmsc.usgs.gov/
NWHC	National Wildlife Health Center	http://www.nwhc.usgs.gov/
NWRC	National Wetlands Research Center	http://www.nwrc.usgs.gov/
PIERC	Pacific Island Ecosystems Research Center	http://biology.usgs.gov/pierc/
PWRC	Patuxent Wildlife Research Center	http://www.pwrc.usgs.gov/
SBSC	Southwest Biological Science Center	http://sbsc.wr.usgs.gov/
UMESC	Upper Midwest Environmental Sciences Center	http://www.umesc.usgs.gov/
WERC	Western Ecological Research Center	http://www.werc.usgs.gov/
WFRC	Western Fisheries Research Center	http://wfrc.usgs.gov/
WRD	Water Resources Discipline	http://water.usgs.gov/
General	For a map showing the locations of and links to the 17 Biology Science Centers, please visit:	http://biology.usgs.gov/pub_aff/centers.html